

WRC Energy Savings Project



Project: WRC Energy Savings Project

Project Location: Seattle, Washington

Line Office: Office of the Chief Administrative Officer

PPMD Project Scope: The objective of this Project is the implementation of a Performance based contract for the design, construction and measurement/verification of the installation of Energy Conservation Measures (ECM) at the Western Regional Center (WRC) in Seattle, WA. The Project's successful implementation is anticipated to reduce the WRC's overall energy consumption thus supporting NOAA's goals in comply with Executive Order (EO) 13423, EO 13514, and Guiding Principals for Federal Leadership in High Performance and Sustainable Buildings.



Project Award: \$5,450,000

Background: NOAA's Western Regional Center (WRC), located on the northwestern shore of Lake Washington, houses the largest variety of NOAA programs at a single location in the United States, and employs the largest NOAA staff outside the Washington, D.C., metropolitan area. The WRC consists of 3 office buildings (Buildings. 1, 3, 4); a cafeteria (Building. 2); day care center (Building 6); a warehouse/dive center (Building 8); an auditorium (Building 9); and 2 hangars converted to workspace/storage buildings (Buildings 32, and 33).

NOAA was tasked to reduce the WRC's overall energy consumption to comply with Executive Order (EO) 13423, EO 13514, and *Guiding Principles for Federal Leadership in High Performance and Sustainable Buildings*. To meet the target reductions, while also allowing deferred maintenance to be performed on major HVAC equipment and window seals, NOAA entered into a task order award on November 24, 2015 to Ameresco, Inc. a qualified Energy Service Company (ESCO) to implement feasible energy conservation measures (ECM's) at the WRC while using 3rd party financing. Incentive rebates from utility companies, together with yearly savings on utility bills that would be realized after implementation of the ECM's, would be used to make regular payments to the finance company over a payback period of approximately 23 years.

Current Status:

Ameresco completed implementation of Energy Conservation Measures on 31 March 2017 for the following ECM's: ECM-1 Building Controls System Upgrade; ECM-2 High Efficiency Boiler Upgrade; ECM-3 Cooling Upgrade; ECM-4 HVAC Upgrade; ECM-5 Lighting System Upgrades; ECM-7 Refrigeration Upgrades and ECM-11 Building Envelope Upgrades. Project is currently in the one year contract warranty period with the 1st year Measurement & Verification (M&V) scheduled for approximately mid to late March of 2018.

PPMD Project Manager: Mark Eberling, FAC COR Level 3;

Project Team: WRC FOD: Ray Hermes, P.E.

Contractor: Ameresco, Inc.,

Award Date: 24 Nov. 15 **Installation Acceptance Date:** 31 March 17

